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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY POLLUTION REPORT

I. HEADING

Date: January 27, 1999

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Subject: Vulcan Louisville Smelting (Vacant Lot) Site

POLREP#: Polrep # 5

II. BACKGROUND

Site ID No.: A527

Delivery Order No.: USACE - 0055

Response Authority: CERCLA (ERB)

CERCLA Incident Category: Non-Time-Critical Removal

CERCLIS ID#: ILR000054759

NPL Status: Non-NPL

Action Memorandum Signed: May 6, 1998

Start Date: August 4, 1998

Demobilization Date: January 19, 1999

EPA Region 5 Records Ctr.



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III. RESPONSE INFORMATION

- A. The Vacant Lot site is a 6.4-acre parcel of land located at the northeast corner of Commonwealth Avenue and 22nd Street in North Chicago, Lake County Illinois. The site is transected by Pettibone Creek, an intermittent water body that lies in a relatively steep-sided ravine, and originates at the northwest boundry of the site. The creek flows to the south on site, and then flows east to finally merge into Lake Michigan (1.5 miles from the site). Historical information indicates that the site has been utilized by nearby industries for waste

disposal. The source, quantity, and nature of the materials brought to the site is not well documented. However, reports of foundry sand and tailings deposition at the site is consistent with descriptions of materials observed on site. Numerous sampling events have been conducted at the site since 1984 by State and local officials. Elevated levels of heavy metals, chlorinated solvents, PAHs, pesticides, and PCBs were detected in on-site soil samples.

In September of 1994, the U.S.EPA conducted a Site assessment at the request of Illinois EPA. Several soil and sediment samples were collected, including samples from the location of the previous underground fire incident. Generally, elevated levels of heavy metals, (including arsenic, beryllium, and lead), TCE, and PCBs were detected at the site. Based upon the Site characterization data and the results of the Streamlined Risk Evaluation and the Streamlined Ecological Risk Evaluation, removal action objectives were developed to provide a basis for the identification and evaluation of alternatives for a non-time-critical removal action. Removal action objectives were developed for those areas of the site which were determined to exceed a risk of 1 in 100,000, an HI of 1, or for those areas which have a high potential to release contaminants to the environment.

B. Action Taken

The following actions were accomplished during the period of December 7 to January 22, 1999.

The week ending 12-11-98, excavation continued in grids 26 thru 32 with approximately 1621 yds of soil removed for stabilization. Total yards stabilized this week were 2150 yards. Shipped approximately 4623 tons of treated soil to the Kestrel Hawk Landfill. Grids 26 thru 31 and half of grid 32 were confirmed clean. The support zone area was relocated to allow continued excavation and stabilization activities. Funding limit reached, expecting additional funds by next week.

The week ending 12-18-98, current funding limit was exceeded and work was suspended at the close of business Friday 12-11-98. Additional funding was received on Monday 12-14-98 and on-site work resumed on Tuesday 12-15-98. Excavation continued in grids 32, 33, and 43, approximately 1280 yards of soil were removed. Stabilized 1000 yards of TCLP lead soil, and shipped approximately 3860 tons of soil to Kestrel Hawk Landfill. Received clean confirmation sample results for grids 33 and 43.

The week ending 12-25-98, excavated approximately 2100 yards of soil from grids 34, 36, 37, 39, 40, and 42. Stabilized 2100 yards of TCLP lead soil, and shipped approximately 3047 tons of soil to Kestrel Hawk Landfill. Received clean confirmation results for grids 30, 32, 33, 34, 37, 39, 40, and 42. Dozer mobilized to the site to start final grading. Secured site for Christmas Holiday, 12-23-98 was the last workday for the week.

The week ending 1-1-99, excavated approximately 800 yards of soil from road grids 36, 37, 43, and 42. Stabilized 750 yards of TCLP lead soil, and shipped approximately 862 tons of soil to Kestrel Hawk Landfill. Received clean confirmation sample results for road grids 36, 37, 43, and 42. No work was performed January 1, 2, and 3 due to Holiday and weather conditions.

The week ending 1-8-99, excavated 450 yards of soil from road grids 39 and 40, and removed visual slag from grid 39. Excavation is now complete. Stabilized 450 yards of TCLP lead soil. Stabilization of soil is now complete. Shipped approximately 1819 tons of soil to Kestrel Hawk Landfill. Received clean confirmation sample results for road grids 39 and 40.

The week ending 1-15-99, shipped approximately 3097 tons of treated soil to Kestrel Hawk Landfill, which now completes T&D of soils. Sample results indicate that additional soil will require excavation from the stockpile area. All personnel and equipment were demobilized except for the office trailer, OHM excavator, and the project accountant.

The week ending 1-22-99, all remaining personnel and equipment were demobilized this week. As of Tuesday 1-19-99, the site was shut down

To date 7,414 yards of non-hazardous lead soils have been excavated, 20,726 yards of TCLP lead soil have been excavated and stabilized, and 1,150 yards of PCB/lead soil have been excavated. Approximately 9,810 yards of backfill dirt and stone have been delivered to the site.

IV. NEXT STEPS

Remove small amount of soil in the stockpile area which exceeds cleanup goal.

Perform site restoration activity as deemed necessary by U.S.EPA.

• Pursue Prospective Purchase Agreement with EMCO and the Town of North Chicago.

Continue with administrative closeout of project and final report preparation.

V. ISSUES

None

VI. COST TO DATE as of 1/10/99

Subject	Amount Budgeted	Amount Used	Amount Remaining
U.S. EPA	\$ NA	\$	\$
U.S. ACE	\$ 340,000	\$ 340,000	\$ 0
OHM	\$3,060,000.00	\$ 2,658,690	\$ 401,310.00
TOTAL	\$3,400,000.00	\$ 2,998,690	\$ 401,310.00

VII. WASTE DISPOSAL SUMMARY

<u>Wastestream</u>	<u>Quantity</u>	<u>Manifest #</u>	<u>Disposal</u>
Non-haz soil	8,434 tons		BFI Landfill Zion, IL
Non-haz soil	34,250 tons		Kestrel Hawk Park Landfill Racine, WI
Non-haz/non-TSCA soil	1,110 tons		Kestrel Hawk Park Landfill Racine, WI
Debris	49 tons		Kestrel Hawk Park Landfill Racine, WI